SHARP
SUPPLEMENTAL SERVICE MANUAL

S9214R216FPST

MICROWAVE OVEN

MODEL R-216FS

In the interest of user-safety the oven should be restored to its original condition and only parts identical to those specified should be used.

WARNING TO SERVICE PERSONNEL: Microwave ovens contain circuitry capable of producing very high voltage and current, contact with following parts may result in a severe, possibly fatal, electrical shock. (High Voltage Capacitor, High Voltage Power Transformer, Magnetron, High Voltage Rectifier Assembly, High Voltage Harness etc..)

This is a supplemental Service Manual for Model R-216FS. This model is quite similar to base model R-214FW. Use this supplemental manual together with the Base Model Service Manual (Refer No. is S3208R220FPW/) for complete operation, service information, etc..

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SHARP CORPORATION

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The contents are subject to change without notice.

PRECAUTIONS TO BE OBSERVED BEFORE AND DURING SERVICING TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY

(a) Do not operate or allow the oven to be operated with the door open.
(b) Make the following safety checks on all ovens to be serviced before activating the magnetron or other microwave source, and make repairs as necessary: (1) interlock operation, (2) proper door closing, (3) seal and sealing surfaces (arcing, wear, and other damage), (4) damage to or loosening of hinges and latches, (5) evidence of dropping or abuse.
(c) Before turning on microwave power for any service test or inspection within the microwave generating compartments, check the magnetron, wave guide or transmission line, and cavity for proper alignment, integrity, and connections.
(d) Any defective or misadjusted components in the interlock, monitor, door seal, and microwave generation and transmission systems shall be repaired, replaced, or adjusted by procedures described in this manual before the oven is released to the owner.
(e) A microwave leakage check to verify compliance with the Federal Performance Standard should be performed on each oven prior to release to the owner.

BEFORE SERVICING

Before servicing an operative unit, perform a microwave emission check as per the Microwave Measurement Procedure outlined in this service manual.
If microwave emissions level is in excess of the specified limit, contact SHARP ELECTRONICS CORPORATION immediately @1-800-237-4277.

If the unit operates with the door open, service person should 1) tell the user not to operate the oven and 2) contact SHARP ELECTRONICS CORPORATION and Food and Drug Administration's Center for Devices and Radiological Health immediately.

Service personnel should inform SHARP ELECTRONICS CORPORATION of any certified unit found with emissions in excess of 4mW/cm^2. The owner of the unit should be instructed not to use the unit until the oven has been brought into compliance.

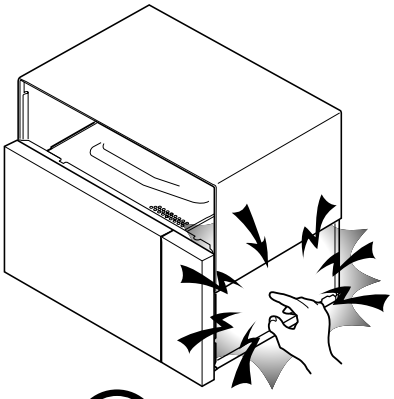
WARNING TO SERVICE PERSONNEL

Microwave ovens contain circuitry capable of producing very high voltage and current, contact with following parts may result in a severe, possibly fatal, electrical shock.

(Example)

High Voltage Capacitor, High Voltage Power Transformer, Magnetron, High Voltage Rectifier Assembly, High Voltage Harness etc..

Read the Service Manual carefully and follow all instructions.



Don't Touch !
Danger High Voltage

Before Servicing

1. Disconnect the power supply cord , and then remove outer case.
2. Open the door and block it open.
3. Discharge high voltage capacitor.

WARNING: RISK OF ELECTRIC SHOCK. DISCHARGE THE HIGH-VOLTAGE CAPACITOR BEFORE SERVICING.

The high-voltage capacitor remains charged about 60 seconds after the oven has been switched off. Wait for 60 seconds and then short-circuit the connection of the high-voltage capacitor (that is the connecting lead of the high-voltage rectifier) against the chassis with the use of an insulated screwdriver.

Whenever troubleshooting is performed the power supply must be disconnected. It may, in some cases, be necessary to connect the power supply after the outer case has been removed, in this event,

1. Disconnect the power supply cord, and then remove outer case.
2. Open the door and block it open.
3. Discharge high voltage capacitor.
4. Disconnect the leads to the primary of the power transformer.
5. Ensure that the leads remain isolated from other components and oven chassis by using insulation tape.
6. After that procedure, reconnect the power supply cord.

When the testing is completed,

1. Disconnect the power supply cord, and then remove outer case.
2. Open the door and block it open.
3. Discharge high voltage capacitor.
4. Reconnect the leads to the primary of the power transformer.
5. Reinstall the outer case (cabinet).
6. Reconnect the power supply cord after the outer case is installed.
7. Run the oven and check all functions.

After repairing

1. Reconnect all leads removed from components during testing.
2. Reinstall the outer case (cabinet).
3. Reconnect the power supply cord after the outer case is installed.
4. Run the oven and check all functions.

Microwave ovens should not be run empty. To test for the presence of microwave energy within a cavity, place a cup of cold water on the oven turntable, close the door and set the power to HIGH and set the microwave timer for two (2) minutes. When the two minutes has elapsed (timer at zero) carefully check that the water is now hot. If the water remains cold carry out **Before Servicing** procedure and re-examine the connections to the component being tested.

When all service work is completed and the oven is fully assembled, the microwave power output should be checked and microwave leakage test should be carried out.

MICROWAVE MEASUREMENT PROCEDURE

A. Requirements:

1) Microwave leakage limit (Power density limit): The power density of microwave radiation emitted by a microwave oven should not exceed 1mW/cm^2 at any point 5cm or more from the external surface of the oven, measured prior to acquisition by a purchaser, and thereafter (through the useful life of the oven), 5 mW/cm^2 at any point 5cm or more from the external surface of the oven.
2) Safety interlock switches: Primary interlock relay and door sensing switch shall prevent microwave radiation emission in excess of the requirement as above mentioned, secondary interlock switch shall prevent microwave radiation emission in excess of 5 mW/cm^2 at any point 5cm or more from the external surface of the oven.

B. Preparation for testing:

Before beginning the actual measurement of leakage, proceed as follows:

1) Make sure that the actual instrument is operating normally as specified in its instruction booklet.

   Important:
   Survey instruments that comply with the requirement for instrumentation as prescribed by the performance standard for microwave ovens, 21 CFR 1030.10(c)(3)(i), must be used for testing.

2) Place the oven tray in the oven cavity.
3) Place the load of 275±15 ml (9.8 oz) of tap water initially at 20±5˚C (68˚F) in the center of the oven cavity.
   The water container shall be a low form of 600 ml (20 oz) beaker with an inside diameter of approx. 8.5 cm (3-1/2 in.) and made of an electrically nonconductive material such as glass or plastic.
   The placing of this standard load in the oven is important not only to protect the oven, but also to insure that any leakage is measured accurately.
4) Set the cooking control on Full Power Cooking Mode
5) Close the door and select a cook cycle of several minutes. If the water begins to boil before the survey is completed, replace it with 275 ml of cool water.

C. Leakage test:

Closed-door leakage test (microwave measurement)

1) Grasp the probe of the survey instrument and hold it perpendicular to the gap between the door and the body of the oven.
2) Move the probe slowly, not faster than 1 in./sec. (2.5 cm/sec.) along the gap, watching for the maximum indication on the meter.
3) Check for leakage at the door screen, sheet metal seams and other accessible positions where the continuity of the metal has been breached (eg., around the switches, indicator, and vents).
   While testing for leakage around the door pull the door away from the front of the oven as far as is permitted by the closed latch assembly.
4) Measure carefully at the point of highest leakage and make sure that the highest leakage is no greater than 4mW/cm^2, and that the secondary interlock switch and the primary interlock relay do turn the oven OFF before any door movement.

NOTE: After servicing, record data on service invoice and microwave leakage report.

SERVICE MANUAL

SHARP

MICROWAVE OVEN

R-216FS

FOREWORD

This Manual has been prepared to provide Sharp Electronics Corp. Service Personnel with Operation and Service Information for the SHARP MICROWAVE OVENS, R-216FS.

The model R-216FS is quite similar to base model R-214FW (Refer No. is S3208R220FPW/).

It is recommended that service personnel carefully study the entire text of this manual and the base model's manual so that they will be qualified to render satisfactory customer service.

Check the interlock switches and the door seal carefully. Special attention should be given to avoid electrical shock and microwave radiation hazard.

WARNING

Never operate the oven until the following points are ensured.
(A) The door is tightly closed.
(B) The door brackets and hinges are not defective.
(C) The door packing is not damaged.
(D) The door is not deformed or warped.
(E) There is no other visible damage with the oven.

Servicing and repair work must be carried out only by trained service personnel.

DANGER

Certain initial parts are intentionally not grounded and present a risk of electrical shock only during servicing.
Service personnel - Do not contact the following parts while the appliance is energized;
High Voltage Capacitor, Power Transformer, Magnetron, High Voltage Rectifier Assembly, High Voltage Harness;
If provided, Vent Hood, Fan assembly, Cooling Fan Motor.

All the parts marked "*" on parts list are used at voltages more than 250V.

Removal of the outer wrap gives access to voltage above 250V.

All the parts marked "Δ" on parts list may cause undue microwave exposure, by themselves, or when they are damaged, loosened or removed.

SHARP ELECTRONICS CORPORATION

SHARP PLAZA, MAHWAH,
NEW JERSEY 07430-2135

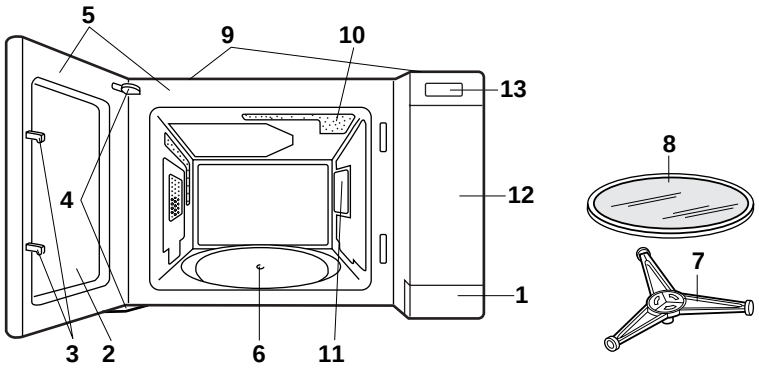
PRODUCT DESCRIPTION

SPECIFICATIONS

ITEM	DESCRIPTION
Power Requirements	120 Volts 60 Hertz Single phase, 3 wire grounded
Power Consumption	1200W / Approx. 10.3 Amperes
Power Output	800 W nominal of RF microwave energy (IEC Test procedure) Operating frequency 2450 MHz
Case Dimensions	Width 18-1/8" Height 10-7/8" Depth 14"
Cooking Cavity Dimensions (0.8 Cubic feet)	Width 12-5/8" Height 7-7/8" Depth 13-1/4"
Control Complement	Touch Control System Clock (1:00 - 12:59) Timer (0 - 99 minutes 99 seconds) Microwave Power for Variable Cooking Repetition Rate; P-HI ..... Full power throughout the cooking time P-90 ..... approx. 90% of FULL Power P-80 ..... approx. 80% of FULL Power P-70 ..... approx. 70% of FULL Power P-60 ..... approx. 60% of FULL Power P-50 ..... approx. 50% of FULL Power P-40 ..... approx. 40% of FULL Power P-30 ..... approx. 30% of FULL Power P-20 ..... approx. 20% of FULL Power P-10 ..... approx. 10% of FULL Power P-0 ..... No power throughout the cooking time POPCORN pad, MINUTE PLUS pad REHEAT pad, COOK pad, DEFROST pad Number selection pads TIMER / CLOCK pad POWER LEVEL pad START pad STOP/CLEAR pad
Oven Cavity Light	Yes
Safety Standard	UL Listed. FCC Authorized DHHS Rules, CFR, Title 21, Chapter 1, Subchapter J

OVEN DIAGRAM

1 Door open button
Push to open door.
2 Oven door with see-through window
3 Safety door latches
The oven will not operate unless the door is securely closed.
4 Door hinges
5 Door seals and sealing surfaces
6 Turntable motor shaft
7 Removable turntable support
Carefully place the turntable support in the center of the oven floor.
8 Removable turntable
Place the turntable securely on the turntable support. The turntable will rotate clockwise or counterclockwise. Only remove for cleaning.
9 Ventilation openings (Rear)
10 Oven light
It will light when oven is operating.
11 Waveguide cover: DO NOT REMOVE.
12 Auto-Touch control panel
13 Time display: 99 minutes, 99 seconds



TOUCH CONTROL PANEL

NOTE:
Some one-touch cooking features such as "MINUTE PLUS" are disabled after three minutes when the oven is not in use. These features are automatically enabled when the door is opened and closed or the STOP/ CLEAR pad is pressed.

SCHEMATIC

NOTE: CONDITION OF OVEN

1. DOOR CLOSED
2. CLOCK APPEARS ON DISPLAY

NOTE: "★" indicates components with potentials above 250V.

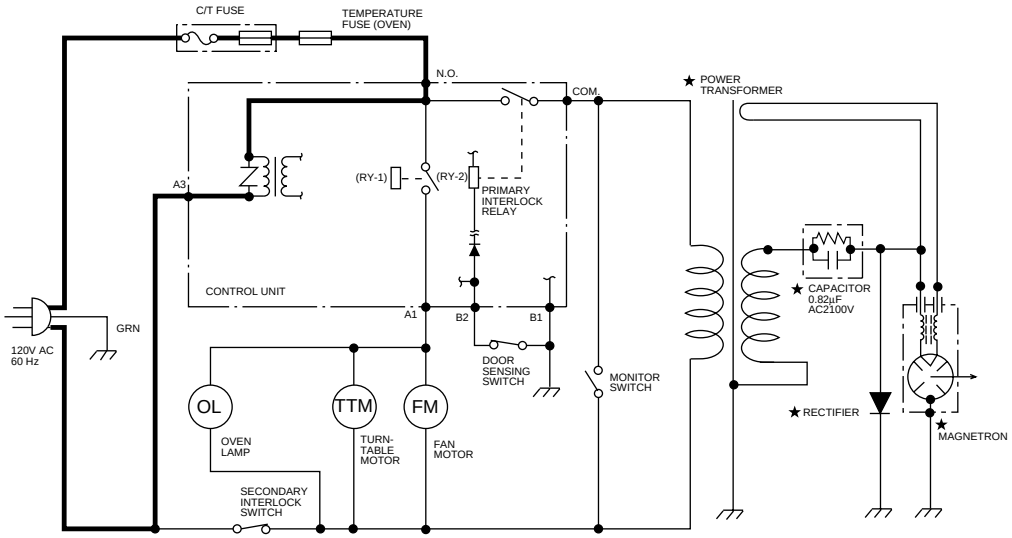


Figure O-1. Oven Schematic-Off Condition

COMPONENT REPLACEMENT AND ADJUSTMENT PROCEDURE

WARNING AGAINST HIGH VOLTAGE:

Microwave ovens contain circuitry capable of producing very high voltage and current, contact with following parts may result in severe, possibly fatal, electric shock.
(Example)
High Voltage Capacitor, Power Transformer, Magnetron, High Voltage Rectifier Assembly, High Voltage Harness etc..

WARNING: **Avoid possible exposure to microwave energy. Please follow the instructions below before operating the oven.**

1. Disconnect the power supply cord.
2. Make sure that a definite" click" can be heard when the microwave oven door is unlatched. (Hold the door in a closed position with one hand, then push the door open button with the other, this causes the latch leads to rise, it is then possible to hear a "click' as the door switches operate.)
3. Visually check the door and cavity face plate for damage (dents, cracks, signs of arcing etc.).

Carry out any remedial work that is necessary before operating the oven.
Do not operate the oven if any of the following conditions exist;

1. Door does not close firmly.
2. Door hinge, support or latch hook is damaged.
3. The door gasket or seal is damaged.
4. The door is bent or warped.
5. There are defective parts in the door interlock system.
6. There are defective parts in the microwave generating and transmission assembly.
7. There is visible damage to the oven.

Do not operate the oven:
1. Without the RF gasket (Magnetron).
2. If the wave guide or oven cavity are not intact.
3. If the door is not closed.
4. If the outer case (cabinet) is not fitted.

WARNING FOR WIRING

To prevent an electric shock, take the following precautions.
1. Before wiring,
   1) Disconnect the power supply cord.
   2) Open the door block it open.
   3) Discharge the high voltage capacitor and wait for 60 seconds.
2. Don't let the wire leads touch to the following parts;
   1) High voltage parts:
      Magnetron, High voltage transformer, High voltage capacitor and High voltage rectifier assembly.
   2) Hot parts:
      Oven lamp, Magnetron, High voltage transformer and Oven cavity.
   3) Sharp edge:
      Bottom plate, Oven cavity, Waveguide flange, Chassis support and other metallic plate.
   4) Movable parts (to prevent a fault)
      Fan blade, Fan motor, Switch, Switch lever, Open button.
3. Do not catch the wire leads in the outer case cabinet.
4. Insert the positive lock connector until its pin is locked and make sure that the wire leads do not come off even if the wire leads are pulled.
5. To prevent an error function, connect the wire leads correctly, referring to the Pictorial Diagram.

Please refer to 'OVEN PARTS, CABINET PARTS, CONTROL PANEL PARTS, DOOR PARTS', when carrying out any of the following removal procedures:

CONTROL PANEL ASSEMBLY REMOVAL

1. Disconnect the power supply cord and remove outer case.
2. Open the door and block it open.
3. Discharge high voltage capacitor.
4. Disconnect the leads from the control unit.
5. Remove the one (1) screw holding the control panel decoration to the oven cavity front plate.
6. Remove the one (1) screw holding the control panel to the front plate of the oven cavity.
7. Now, the control panel assembly is free.

GRAPHIC SHEET AND MEMBRANE SWITCH REPLACEMENT

Removal

1. Disconnect the power supply cord and then remove outer case.
2. Open the door and block it open.
3. Discharge high voltage capacitor.
4. Remove the control panel assembly, referring to chapter of CONTROL PANEL ASSEMBLY REMOVAL.
5. Remove the three (3) screws holding the control unit to the control panel frame. And remove the control unit.
6. Remove the rubber connector from the long slit on the control panel frame.
7. Tear away the graphic sheet from the control panel frame.
8. Tear away the membrane switch from the control panel frame.

Installation

1. Remove remaining adhesive on the control panel frame surfaces with a soft cloth soaked in alcohol.
2. Tear the backing paper from the new membrane switch.
3. Insert the ribbon cable of the membrane switch into the slit of the control panel frame.
4. Adjust the upper edge and right edge of the membrane switch to the small depression on the surface of the control panel frame.
5. Attach the membrane switch to the control panel frame by rubbing with a soft cloth not to scratch.
6. Tear the backing paper from the new graphic sheet.
7. Adjust the upper edge and right edge of the graphic sheet to the large depression on the surface of the control panel frame.
8. Attach the graphic sheet to the control panel frame by rubbing with a soft cloth not to scratch.
9. Tear the small backing paper from the ribbon cable of the membrane switch.
10. Insert the two (2) holes of the ribbon cable into the two (2) pins of the control panel frame (rear side).
11. Attach the ribbon cable to the control panel frame rear side.
12. Place the edge of the membrane switch's ribbon cable on the lower portion of the liquid crystal display.
13. Insert the rubber connector into the long slit on the control panel frame.
14. Reinstall the control unit to the control panel frame with the three (3) screws.

NOTE:

Do not contact the conductor portion of the ribbon cable (edge) and the rubber connector directly with your fingers. This is to avoid oxidized.

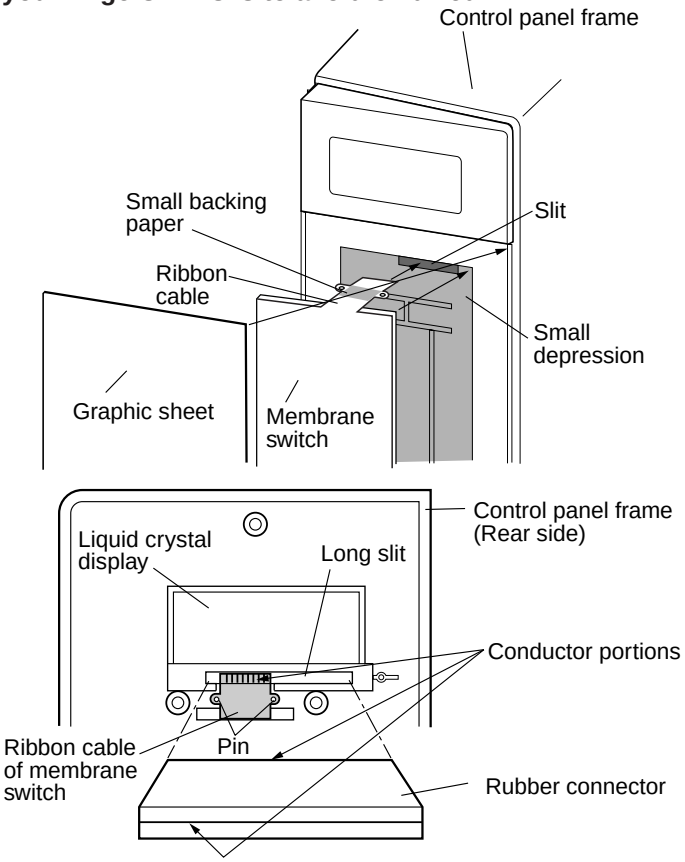


Figure C-2. Graphic Sheet and Membrane Switch Replacement

DOOR REPLACEMENT

REMOVAL

1. Disconnect the power supply cord.
2. Open the door slightly.
3. Insert a putty knife (thickness of about 0.5mm) into the gap between the choke cover and corner portion of door panel as shown in Figure C-5 to free engaging parts.
4. Pry the choke cover by inserting a putty knife in order shown in figure C-5.
5. Release choke cover from door panel.
6. Now choke cover is free.

NOTE: When carrying out any repair to the door, do not bend or warp the slit choke (tabs on the door panel assembly) to prevent microwave leakage.

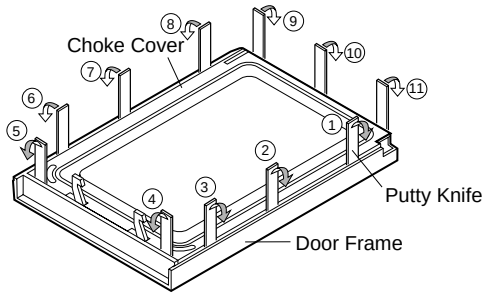


Figure C-5. Door Disassembly

7. Release two (2) pins of door panel from two (2) holes of upper and lower oven hinges by lifting up.
8. Now, door panel is free from oven cavity.

9. Release door panel from ten (10) tabs of door frame and remove door frame by sliding the door panel downward.
10. Now, door panel with sealer film is free.
11. Tear sealer film from door panel.
12. Now, door panel is free.
13. Slide latch head upward and remove it from door frame with releasing latch spring from door frame and latch head.
14. Now, latch head and latch spring are free.
15. Remove door screen from door frame.
16. Now, door screen is free.
17. Unholed each six (6) tab of the door decoration upper and lower by using a pair of needle-nose pliers. And remove the door decoration upper and lower from the door frame. Now, the door frame is loose.

RE-INSTALL

1. Insert each six (6) tab of the door decoration upper and lower into each slit of the door frame and bent the tabs by using a pair of needle-nose pliers.
2. Re-install door screen to door frame.
3. Re-install latch spring to the head. Re-install latch spring to the door frame. Re-install latch head to the door frame.
4. Re-install door panel to door frame by fitting ten (10) tabs of door frame to ten (10) holes of door panel.
5. Put sealer film on door panel. Refer to "Sealer Film" and figure C-7, on how to handle the new film.
6. Catch two (2) pins of door panel on two (2) hole of upper and lower oven hinges.
7. Re-install choke cover to door panel by pushing.

Note: After any service to the door;

(A) Make sure that door sensing switch, secondary interlock switch and monitor switch are operating properly. (Refer to chapter "Test Procedures".).

(B) An approved microwave survey meter should be used to assure compliance with proper microwave radiation emission limitation standards.

After any service, make sure of the following :

1. Door latch heads smoothly catch latch hook through latch holes and that latch head goes through center of latch hole.
2. Deviation of door alignment from horizontal line of cavity face plate is to be less than 1.0mm.
3. Door is positioned with its face pressed toward cavity face plate.
4. Check for microwave leakage around door with an approved microwave survey meter. (Refer to Microwave Measurement Procedure.)

Note: The door on a microwave oven is designed to act as an electronic seal preventing the leakage of microwave energy from oven cavity during cook cycle. This function does not require that door be air-tight, moisture (condensation)-tight or light-tight. Therefore, occasional appearance of moisture, light or sensing of gentle warm air movement around oven door is not abnormal and do not of themselves, indicate a leakage of microwave energy from oven cavity.

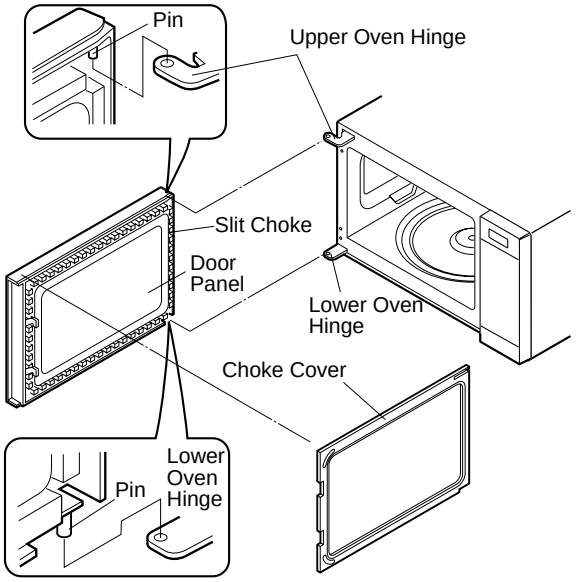


Figure C-6. Door Replacement

SEALER FILM

Installation

1. Put the adhesive tape on the backing film of the sealer film as shown in Fig. C-7.
2. Tear the backing film by pulling the adhesive tape.
3. Put the pasted side of the sealer film on the door panel

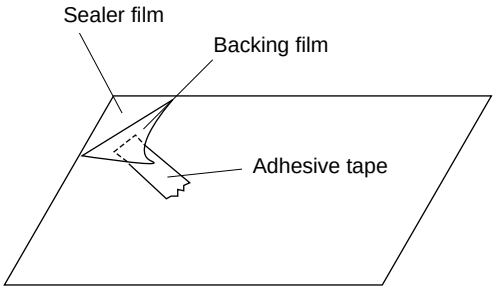


Figure C-7. Sealer film

PARTS LIST

Note: The parts marked "Δ" may cause undue microwave exposure.
The parts marked "*" are used in voltage more than 250V.

	REF. NO.	PART NO.	DESCRIPTION	Q'TY	CODE
			ELECTRIC PARTS		
	1- 1	QSW-MA085WRE0	Secondary interlock switch/ Door sensing switch	2	AF
	1- 1	QSW-MA137WRE0	Secondary interlock switch/ Door sensing switch (Interchangeable)	2	AH
	1- 2	FFS-BA030WRKZ	C/T fuse (120˚C/15A) and monitor switch assembly (AM51620C53Y1)	1	AS
	1- 3	FACCDA089WREZ	Power supply cord	1	AS
	1- 3	FACCDA086WREZ	Power supply cord (Interchangeable)	1	AN
	1- 3	FACCDA081WRE0	Power supply cord (Interchangeable)	1	AP
	1- 3	FACCDA082WRE0	Power supply cord (Interchangeable)	1	AV
*	1- 4	FH-DZA102WRKZ	High voltage rectifier assy	1	AN
*	1- 4	FH-DZA088WRK0	High voltage rectifier assy (Interchangeable)	1	AP
*	1- 5	RC-PZA041WRE0	High voltage capacitor	1	AS
*	1- 5	RC-QZA307WRZZ	High voltage capacitor (Interchangeable)	1	AX
*	1- 5	RC-QZA308WRZZ	High voltage capacitor (Interchangeable)	1	AN
	1- 6	RMOTEA383WRE0	Fan motor	1	AV
	1- 6	RMOTEA355WRE0	Fan motor (Interchangeable)	1	AU
Δ*	1- 7	RV-MZA226WRE0	Magnetron	1	BE
Δ*	1- 7	RV-MZA261WRE0	Magnetron (Interchangeable)	1	BF
Δ*	1- 7	RV-MZA306WRZZ	Magnetron (Interchangeable)	1	BL
	1- 8	RLMPTA082WRZZ	Oven lamp	1	AL
	1- 9	RMOTDA186WRE0	Turntable motor	1	AW
	1- 9	RMOTDA211WRE0	Turntable motor (Interchangeable)	1	AS
	1-10	QFS-TA038WRE0	Temperature fuse 120˚C (Oven)	1	AK
*	1-11	RTRN-A661WRZZ	Power transformer	1	BF
*	1-11	RTRN-A659WRZZ	Power transformer (Interchangeable) for production use	1	--
			CABINET PARTS		
	2- 1	GCABUA864WRPZ	Outer case cabinet	1	BD
	2- 2	GLEGPA074WRE0	Foot	2	AC
	2- 3	PCUSUA605WRPZ	Cushion	1	AG
			CONTROL PANEL PARTS		
	3- 1	FPNLCB671WRKZ	Control panel frame with key unit	1	AZ
	3- 1-1	PSHEPA855WRZZ	Graphic sheet	1	AX
	3- 1-2	QSW-KA022DRZZ	Membrane switch	1	AQ
	3- 1-3	GMADIA118WRRZ	Display window	1	AL
	3- 1-4	HDECQA236WRPZ	Control panel decoration	1	AT
	3- 2	FBTN-A146WRKZ	Open button assembly	1	AS
	3- 2-1	JBTN-B187WRFZ	Open button	1	AH
	3- 2-2	HDECQA239WRPZ	Button decoration	1	AZ
	3- 3	MSPRCA050WRE0	Open button spring	1	AB
	3- 4	DPWBFC240WRUZ	Control unit	1	BF
	3- 5	QCNC-A014WRZZ	Rubber connector	1	AE
	3- 6	RLCDSA105DRZZ	Liquid crystal display	1	AQ
	3- 7	XEPSD30P08XS0	Screw; 3mm x 8mm	3	AA
			OVENPARTS		
Δ	4- 1	PHOK-A122WRFZ	Latch hook	1	AM
	4- 2	LBNDKA038WRP0	Capacitor holder	1	AF
	4- 3	NFANJA029WRE0	Fan blade	1	AK
	4- 4	PDUC-A801WRWZ	Fan duct	1	AR
Δ	4- 5	**********	Oven cavity **(Not replaceable part)**	1	--
	4- 6	GCOVHA425WRPZ	Turntable motor cover	1	AK
	4- 7	MLEVPA241WRFZ	Switch lever	1	AG
	4- 8	PCOVPA276WRE0	Waveguide cover	1	AM
	4- 9	PCUSUA237WRP0	Cushion	2	AF
	4-10	PPACGA176WREZ	TTM packing	1	AC
	4-11	PCUSUA278WRP0	Cushion	1	AB
	4-12	PCUSGA568WREZ	Cushion	1	AC
			DOORPARTS		
Δ	5- 1	FDORFA348WRTZ	Door panel assembly	1	BC
Δ	5- 2	FWAKPA373WRKZ	Door frame assembly	1	AY
Δ	5- 2-1	GWAKPA871WRFZ	Door frame	1	AW
	5- 2-2	HDECQA237WRRZ	Door decoration U	1	AU
	5- 2-3	HDECQA238WRRZ	Door decoration L	1	AT
	5- 3	HPNL-A785WRRZ	Door screen	1	AS
Δ	5- 4	LSTPPA205WRFZ	Latch head	1	AF
	5- 5	MSPRTA187WRE0	Spring	1	AC

REF. NO.	PART NO.	DESCRIPTION	Q'TY	CODE
5- 6	PSHEPA782WREZ	Sealer film	1	AG
5- 7	GCOVHA424WRFZ	Choke cover	1	AK
6- 1	NTNT-A094WRE0	Turntable	1	AN
6- 2	FROLPA101WRKZ	Turntable support	1	AR
6- 3	TCAUAA271WRRZ	Monitor caution	1	AF
6- 4	TCAUAA268WRRZ	DHHS caution label	1	AF
6- 5	TINSEA955WRRZ	Instruction book	1	AM
6- 6	FW-VZB837WREZ	Main wire harness	1	AR
7- 1	XHPSD40P08K00	screw : 4 mm x 8 mm	2	AC
7- 2	XHTSD40P08RV0	Screw : 4mm x 8mm	5	AA
7- 3	LX-CZA070WRE0	Special screw (Torx tamper pfoof screw)	2	AC
7- 4	LX-CZ0052WRE0	Special screw	2	AA
7- 5	LX-EZA042WRE0	Special screw	2	AB
7- 6	XHPSD30P06000	Screw : 3mm x 6mm	1	AA
7- 7	XHPSD40P08000	Screw : 4mm x 8mm	3	AA
7- 8	XHTSD40P12RV0	Screw : 4mm x 12mm	1	AA
7- 9	XOTSE40P08000	Screw : 4mm x 8mm	2	AA
7- 10	XOTSD40P08000	Screw : 4mm x 8mm	7	AA
7- 11	XCPSD40P06000	Screw : 4mm x 6mm	1	AA

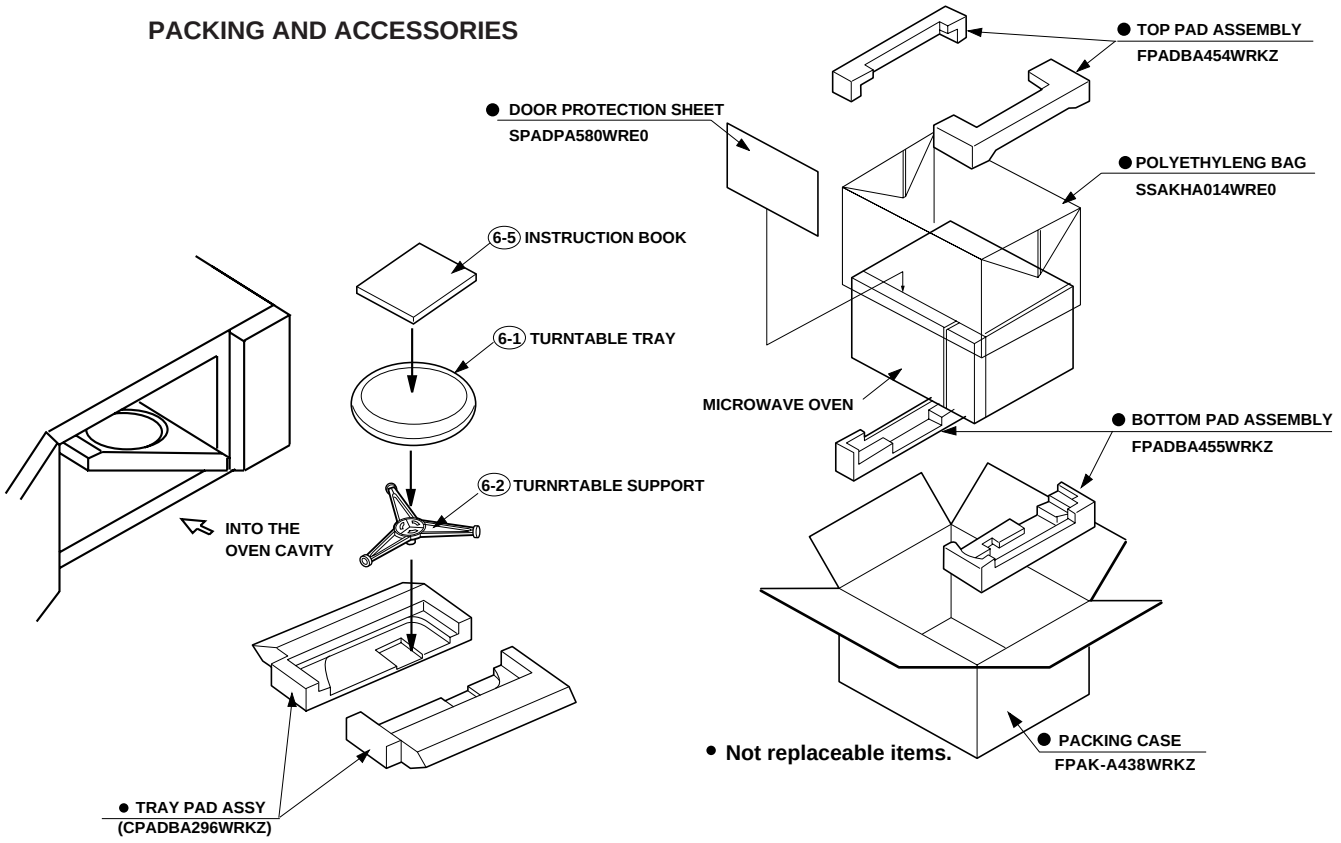
HOW TO ORDER REPLACEMENT PARTS

To have your order filled promptly and correctly, please furnish the following information.

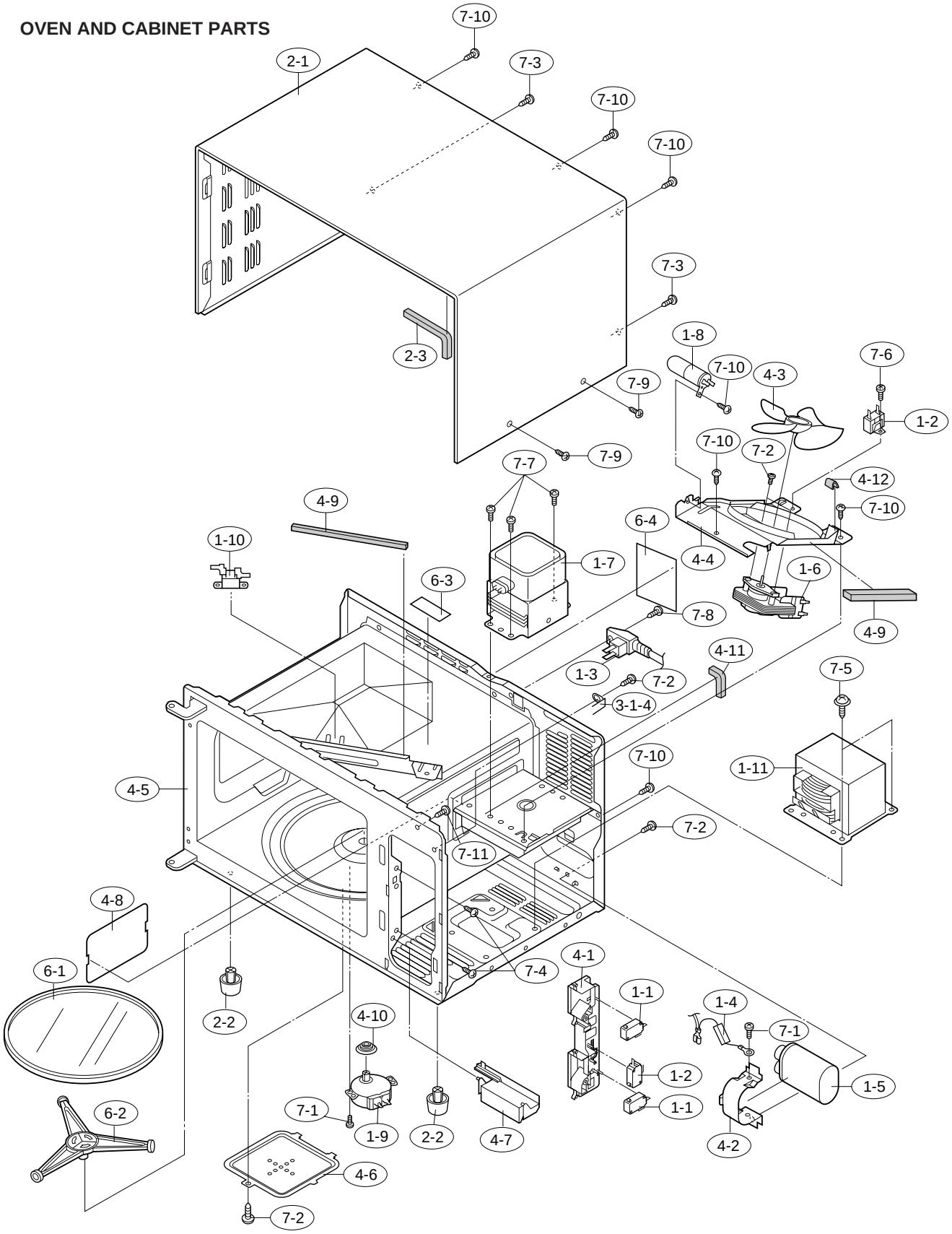
1. MODEL NUMBER 2. REF. NO. 3. PART NO. 4. DESCRIPTION

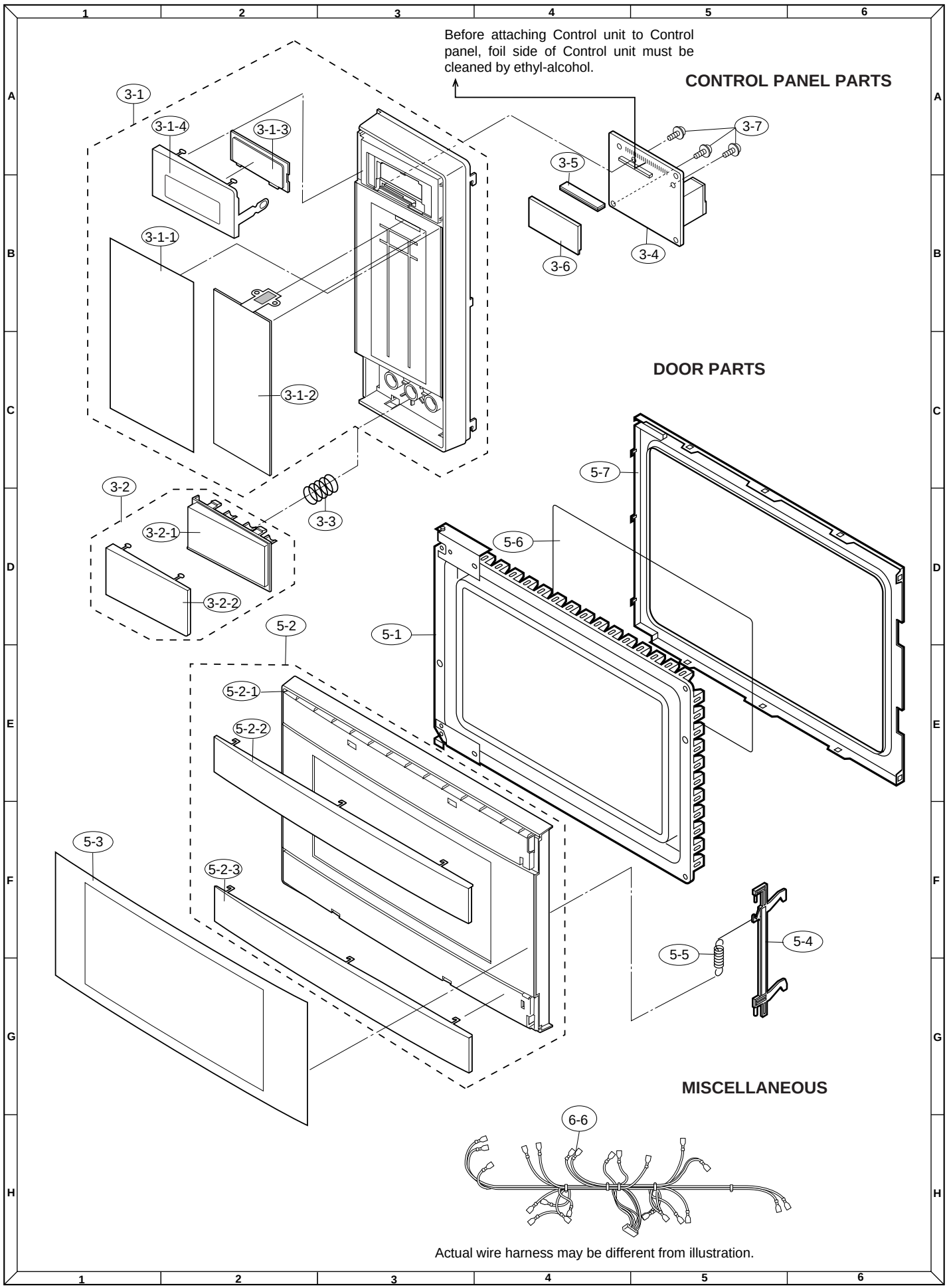
Order Parts from the authorized SHARP parts Distributor for your area.
Defective parts requiring return should be returned as indicated in the Service Policy.

PACKING AND ACCESSORIES



OVEN AND CABINET PARTS




Before attaching Control unit to Control panel, foil side of Control unit must be cleaned by ethyl-alcohol.
CONTROL PANEL PARTS
3-1
3-1-4
3-1-3
3-1-1
3-1-2
3-2
3-2-1
3-2-2
3-3
3-4
3-5
3-6
3-7
DOOR PARTS
5-1
5-2
5-2-1
5-2-2
5-2-3
5-3
5-4
5-5
5-6
5-7
MISCELLANEOUS
6-6
Actual wire harness may be different from illustration.

SHARP

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